

**REMARKS**

Claims 1- 35 are pending in this application. By this Amendment, claims 1, 3, and 5-8 are amended as well as the specification, page 4. Also, claims 9-35 have been added. No new matter has been introduced into the application by the amendments and new claims. Support for the claims can be found throughout the specification, including the original claims, and the drawings. Reconsideration and withdrawal of the rejection in view of the foregoing amendments and the following remarks is respectfully requested.

The Office Action rejected claim 8 under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No 5,850,340 to York.

Amended claim 8 recites broadly the embodiments of the invention disclosed in the specification. In particular, this claim recites a TV operation method that includes "outputting a mouse data, keyboard data and a control data to the computer." York does not disclose this operation.

York discloses integrating a television set and PC so that the computer can completely control the television set. York also discloses a Couch Link Embodiment, where a remote keyboard and a remote pointer control a personal computer so that television displays the same image that is displayed on the computer monitor. The Couch embodiment includes an RF video/audio transmitter which transmits video/audio signals to a TV, an RF Remote pointer Receiver 6, RF Remote Keyboard Receiver 7, and keyboard/pointer sharing circuit 8 to receive control data such as a keyboard data, mouse data, joystick data, etc.

York further includes a Relink embodiment that permits the PC to control the TV's functions including program selection, viewing, recording, and scheduling. In the Relink embodiment, an RF video/audio receiver 15 receives video/audio signal from the personal computer, and in addition, plug-in modules 18, 19, 20 and 21 are added for better control of other consumer electronics hardware such as a VCR, a CD player, or a cable TV set-top box tuner by the PC.

York therefore discloses a method where the PC controls the television. However, York does not disclose a method where a television set controls operations of a personal computer, and more specifically which outputs mouse data, keyboard data and a control data to the computer as recited in claim 8. That is, while mouse signals are generated in the York system, those signals are not output from the television to the computer. Instead, they are directly transmitted from the mouse to the computer, bypassing the television altogether. (See, for example, Fig. 1 where mouse 14 wirelessly transmits a signal directly to computer module 5.)

Because the York patent does not disclose every feature recited in claim 8, it is respectfully submitted that the York patent cannot anticipate this claim. Applicant further submits that these differences are sufficient to render claim 8 non-obvious over York.

The Office Action rejected claims 1-7 under U.S.C. §103(a) as being unpatentable over York, U.S. Patent No. 5,850,340.

Amended claim 1 recites an apparatus for connecting a TV and a computer including, in particular, "a TV coding unit for encoding control signals including a TV signal generated in a TV and generating a first packet signal ... a TV transmission and receiving unit for receiving

the first packet signal, transmitting the received first packet signal to the outside and receiving the second packet signal from the outside... a transmission line connected between the TV transmission and receiving unit and the computer transmission and receiving unit for carrying the first packet signal and the second packet signal."

York discloses a personal computer communicating by wire to a VGA-NTSC encoder 9 that electronically communicates with the RF video and audio transmitter 10 in the computer. York also discloses that the personal computer has a transmission and receiving unit, and that a TV set includes a RF video/audio receiver 15 and various plug-in modules for easy control by the computer.

However, York does not teach or suggest that its TV transmits control signals to the personal computer. More specifically, York does not teach or suggest a TV having a coding unit which encodes control signals including a TV signal, which is then transmitted by a transmission and receiving unit to a computer over a transmission line. Instead, York merely discloses a video/audio receiver 15 and a number of plug-in modules in a TV that receive control signals from the computer; that is, York does not teach or suggest a TV having coding and transmission units which encode and transmit control signals to a computer as recited in claim 1.

Based on at least these differences, it is respectfully submitted that claim 1 is non-obvious and thus patentable over York.

Claim 2 recites that the transmission line includes a first transmission line for transmitting the signal from the TV to the computer and a second transmission line for transmitting the signal from the computer to the TV. As described above, York does not teach or suggest these

Reply to Office Action of November 21, 2003

features and it is respectfully submitted that claim 2 is non-obvious and thus patentable over York.

Claim 3 recites a TV set which includes a transmission and receiving unit which transmits a first packet signal generated based on encoded control signals generated in a TV. The York TV does not transmit encoded control signals and thus does not teach or suggest the transmitting and receiving unit of claim 3. Based on at least these differences, it is respectfully submitted that York cannot render obvious claim 3 or any of its dependent claims.

Claim 5 recites a computer which includes a computer transmission and receiving unit for transmitting the second packet signal and "receiving a first packet signal generated from a television . . ." As previously described, York teaches a computer receiving signals from a remote pointer and a remote keyboard, however does not disclose a computer receiving signals from a TV. Therefore, based on at least these differences, it is respectfully submitted that claim 5 is non-obvious and thus patentable over York.

Claim 6, which depends from independent claim 5, is allowable for at least the same reasons.

Amended claim 7 recites a computer operation "receiving a mouse data, a keyboard data, and a control data from the TV." York, as mentioned above, does not disclose receiving any control data, for example, a mouse data or a keyboard data, from the TV. Rather, he suggests the computer receiving control data, such as a mouse data or a keyboard data, directly from a remote pointer or a remote keyboard. Since York merely teaches the computer receiving control

data directly from the pointer or the keyboard, not through the TV set, it is respectfully submitted that claim 7 is allowable.

Added claims 9-35 are also believed to be allowable over the applied references.

Claim 9 recites "generating a signal in a television; and sending the signal from the television to a personal computer." The York patent does not teach or suggest these features. Claims 10-16 recite additional features which are not taught or suggested by York.

Claim 17 recites an interface comprising "an encoder which encodes a signal generated by a television; and a transmitter which transmits the encoded signal, wherein the encoded signal includes data for controlling a personal computer." The York patent does not teach or suggest these features. Claims 18-21 recite additional features which are not taught or suggested by York.

Claim 21 recites a method comprising "encoding a signal output from a television circuit; and sending the encoded signal to a personal computer." The York patent does not teach or suggest these features. Claims 22-25 recite additional features which are not taught or suggested by York.

Claim 26 recites a method comprising "receiving a signal output from a television; and decoding the signal for input into a circuit of a personal computer." The York patent does not teach or suggest these features. Claims 27-30 recite additional features which are not taught or suggested by York.

Claim 31 recites a system comprising "a first interface unit coupled to a television; and a second interface unit coupled to a personal computer, wherein the first interface unit sends a signal generated in the television to the personal computer over a communications link." The

Serial No. 09/706,792

Docket No. P-0148

Amdt. dated February 18, 2004

Reply to Office Action of November 21, 2003

York patent does not teach or suggest these features. Claims 31-35 recite additional features which are not taught or suggested by York.

### **CONCLUSION**

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **Samuel W. Ntiros**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and

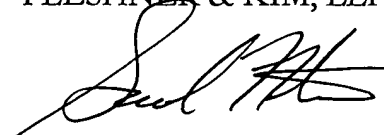
Serial No. 09/706,792  
Amdt. dated February 18, 2004

Docket No. P-0148

Reply to Office Action of November 21, 2003

future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,  
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